## ISSUE SLIP STAPLE AREA (for additional cross references)

| POSITION                  | INITIALS | ID NO. | DATE   |  |  |
|---------------------------|----------|--------|--------|--|--|
| EE DETERMINATION          | ha       | 10385  |        |  |  |
| O.I.P.E. CLASSIFIER       | - 1-2 Kl | 3      | 4-4-00 |  |  |
| FORMALITY REVIEW          | 6        | 64934  | 52600  |  |  |
| RESPONSE FORMALITY REVIEW |          |        |        |  |  |

## INDEX OF CLAIMS

| ~ | Rejected                   | N | Non-elected  |
|---|----------------------------|---|--------------|
|   | Allowed                    | 1 | Interference |
| - | (Through numeral) Canceled | Α | Appeal       |
| ÷ | Restricted                 | 0 | Objected     |

| ſ      |                    |          |       |   |   |   |         |     |          |           |          |          |          |   |              |   |          |          |    |                 |          |              |          |               |              |                    |              |
|--------|--------------------|----------|-------|---|---|---|---------|-----|----------|-----------|----------|----------|----------|---|--------------|---|----------|----------|----|-----------------|----------|--------------|----------|---------------|--------------|--------------------|--------------|
| ١      | Cla                | aim      | L     | 7 | _ | _ | _       | _   | 7        |           | a        | te       | _        |   |              | _ |          |          | ]  | CI              | аіп      | ī            | _        |               | _            | D                  | ate          |
|        | Final              | Original | MIXIN |   |   |   | 4916    |     | oring    |           |          |          |          |   |              |   |          |          |    | Final           | Orloinal |              |          |               | I            | T                  |              |
|        |                    | U        | Įŧ    | - | 1 | B | Ī       | Й   | ž        | Ι         |          |          | I        |   | Ι            |   |          | I        | ]  |                 | 5        |              |          | T             | T            | T                  | Ť            |
| ļ      |                    | 2        | Ľ     | 1 |   | U | ŀ       | _   |          | 1         |          | L        | 1        | _ | 1            |   | L.       | L        |    |                 | 5        | 1 _          | L        | Ι             | Ι            | I                  | Ι            |
| ŀ      |                    | J3       | Ц     | 4 | _ | Ц | 1       | _   | -        | ‡         |          | L        | 1        |   | ⊥            | _ | L        | L        | _  | L               | 5        |              | 上        |               |              | L                  | Ι            |
| ŀ      |                    |          | Н     | 4 | - | Ц | N       | Ц   | +        | 1         |          | L        | 4        | _ | 1            | _ | L        | 1        | 4  |                 | 5        |              | L        | Į             | Ţ            | $oldsymbol{\perp}$ | Ţ            |
|        | _                  | K.       | Ŋ     | ┩ | 4 | 4 | 4       | H   | 4        | ╀         |          | -        | 4        |   | ╀            |   | Ļ.       | ╀-       | 4  | $\vdash$        | 5        |              | $\perp$  | ╄             | 4            | 4                  | ╀            |
| ł      | 7                  | H.       | Y     | 4 | 4 | 4 | Н       | H   | +        | ╀         | -        | ┝        | 4        | _ | ╀            |   | -        | ╄        | ┨  | $\vdash$        | 5        |              | ╄        | ╀             | 4-           | ╄                  | +            |
| ł      | $\overline{\cdot}$ | t        | K     | 1 | + | 1 | H       | 1   | Н        | t         | _        | H        | +        | - | ╁            | _ | ⊢        | ╁        | ┨. | $\vdash$        | 5        |              | ╁        | ╀             | +-           | +-                 | ╀            |
| ****** | ì                  | Ng       | вТ    | 1 | - | 1 | 1       | 1   | ۲        | 1         | _        | H        | 1        | _ | +            | - | H        | +        | 1  | $\vdash$        | 5        | <del>-</del> | ╁        | ╁             | +            | ╁                  | ╁            |
|        |                    | To P     | Ħ     | 1 | _ | 1 | 7       | 1   |          | lt        |          | ┢        | †        |   | †            | _ | Т        | T        | 1  | $\vdash$        | 6        | _            | ╁        | t             | ╫            | ╁                  | t            |
| 1      | _                  | $\prod$  | 1     | 1 |   | П | T       | 1   |          | r         |          | Г        | 1        |   | 1.           |   | Г        | T        | 1  |                 | 6        |              | T        | ✝             | +            | +                  | $\dagger$    |
|        | (                  | -        | IJ    | J |   |   | Ī       | ]   |          | $ lap{T}$ |          |          | 1        |   | T            |   |          | T        | 1  | $\vdash$        | 62       | :            | T        | T             | $\dagger$    | ✝                  | †            |
|        | _(                 | P        | И     | J | _ |   | I       | I   | 1        | I         |          | Ľ        | I        | _ | Ι            |   |          | Γ        | ]  |                 | 6        | 3            | T        | T             | T            | T                  | T            |
| I      | in                 | *        | Ц     | Ţ |   | Ц | $\prod$ | 1   | $\prod$  | I         |          | Ĺ        | I        |   | Γ            |   |          | Γ        | ]  |                 | 64       | Ī            | I        | Γ             | Τ            | T                  | T            |
| ļ      | 2                  | ΛĮ       | Ц     | 1 | 4 | Ц | 4       | 1   | 1        | L         |          |          | 1        | _ | L            |   |          |          | ]  |                 | 65       | <u> </u>     | $\Gamma$ | Г             | Ι            |                    |              |
| 4      | ς,                 |          | n     | 1 |   | 4 | 4       | 1   | _        | Ŀ         |          | L        | 1        |   | 1            |   | L        | L        | ]  | L               | 66       | _            | $\Gamma$ | $\mathbb{L}$  |              | Г                  | Ι            |
| ŀ      | پ                  | 1        | N     | 4 | _ | H | 4       | H   | 4        | L         |          | L        | 4        | _ | ╀            | _ | L        | L        | 1  | L               | 67       |              | L.       |               | L            | L                  | L            |
| ŀ      | _                  | 10       | K     | + | 1 | 4 | Ņ       |     | 1        | -         | _        | L        | 4        | _ | ╀            |   | ļ        | ╄        | ļ  | <u> </u>        | 68       | -            | ╄        | 1             | 1            | ┸                  | L            |
| ŀ      | _                  | 19       | Н     | + | 4 | 4 | V       | 4   | ~        | _         | _        | Ļ.       | 4        | _ | ╀            | _ | L        | ↓_       | 1  | <u>_</u>        | 68       | -            | ┖        | L             | ↓.           | ┸                  | ╀            |
| ŀ      |                    | 20       | Ц     | 4 | 1 | 4 | _       | ļ   | -        | 1         | _        | L        | 1        |   | L            |   | L        | L        | 1  | L               | 70       | -            | L        | L             | $\perp$      | L                  | L            |
| ŀ      |                    | 21       | Н     | 4 | ╀ | 4 | 4       | H   | -        | 1         | _        | L        | ļ        |   | ╀            | _ | L        |          | 1  | $\vdash$        | 7        | _            | 1        | ┺             | 1            | _                  |              |
| ŀ      |                    | 22<br>23 | Н     | + | ł | 4 | V       | 4   | 2        | 1         | 4        | <u>_</u> | 1        |   | ╀            | _ |          | ╀        | 4  | $\vdash$        | 72       |              | ╄        | $\perp$       | ↓_           | _                  | Ļ            |
| ŀ      | (4                 | 24       | Н     | ł | ŀ | + | Ų       | . 1 | ÷        | ╀         | 4        |          | ╀        | _ | ╀            | 4 | _        | ╀        | ┨  | -               | 73       | _            | ╀        | ╄-            | ₽-           | ╄-                 | ╀            |
| ŀ      | ì                  | 25       | H     | t | ╁ | + | r       | 1   | 7        | ┝         | $\dashv$ |          | ╁        | _ | ╀            | - | _        | ╀        | 1  | -               | 74       | -            | ╂        | ⊢             | ╀            | ļ                  | ╀            |
| ŀ      | ٦                  | 26       | #     | t | t | + | 'n      | t   | 1        | ╁         | ┨        | -        | t        |   | ╁            | + |          | -        | ł  | $\vdash$        | 76       | -            | ┾        | ╁             | ╀            | ╁                  | ╀            |
| ŀ      | 7                  | 2        | ۳     | t | t | † | V       |     | <u> </u> | ╁         | +        |          | t        |   | ╁            | ٦ | -        | ┝        | 1  | -               | 77       | _            | ╁╌       | ╁             | ╁╴           | ╁                  | ╀            |
| r      | U                  | 28       | 1     | t | t | t | Ù       | t   | =        | ╁         | 7        | _        | t        | _ | H            | 1 | -        | ┢        | 1  | H               | 78       | ┽—           | 十        | +             | ╁            | ╆                  | ╀╌           |
| r      | ₫                  | 29       | 1     | t | t | t | ٦       | t   | 7        | t         | 7        |          | t        | _ | ┪            | 7 | _        | H        | 1  | $\vdash$        | 79       | +-           | ╁        | ╁╴            | +-           | ╁╌                 | ╁            |
| ľ      | 7                  | 30       | 1     | İ | Ť | † | 7       | Ì   | 7        | Г         | 7        | _        | t        | _ | T            | 1 |          | 1        | 1  | $\vdash$        | 80       | 1            | 一        | ╁╌            | -            | ╁╴                 | ╁            |
| E      | 4                  | 31       | +     | ŀ | E | I | N       | I   | Ţ        |           | 1        | _        | Ī        |   | Γ            | 1 | _        | Γ        | 1  |                 | 81       | T            | 1        | T             | Τ            | †                  | T            |
| L      | J                  | 32       |       | Ĺ | _ | I | _       | I   |          | L         | _        |          | I        | _ | Γ            | _ | _        |          | ]  |                 | 82       | Ι            | Γ        | 1             | Т            | $\vdash$           | 1            |
| L      | _[                 | 33       |       | Ĺ |   |   |         | ſ   | _        | Ĺ         | I        | _        |          | _ | Γ            | ] |          |          | ]  |                 | 83       | Γ            |          | Γ             | Γ            |                    | T            |
| L      | _                  | 34       |       | Ļ |   | 1 |         | L   | _        | Ĺ         | 1        |          | Ĺ        |   | Ĺ            | J |          | L        | 1  |                 | 84       |              |          | Γ             |              | Γ                  | Ι            |
| L      | 4                  | 35<br>36 |       | L |   | 1 | _       | L   | _        | _         | 4        |          | L        |   | L            | 4 |          | L        | 1  | L               | 85       |              |          |               | 匚            |                    | L            |
| H      |                    | 36       |       | ŀ | _ | + |         | ŀ   |          | L         | 4        |          | L        | _ | -            | 4 |          | <u> </u> |    | <u>_</u>        | 86       | L            | L        | L             | L            | L                  | Ľ            |
| H      | _                  | 37       |       | ŀ | _ | + | _       | ł   |          | Ļ.        | 4        |          | L        |   | $\vdash$     | 4 |          | <u> </u> | l  | <b>!</b>        | 87       | L            | <u> </u> | _             | $\perp$      | L                  | L            |
| ┝      | -                  | 39       | _     | ł | _ | + |         | ł   |          | -         | +        |          | ┞        | _ | <del> </del> | 4 | -        | <u> </u> | 1  | $\vdash$        | 88       | L            | L        | 1             | <u> </u>     | L                  | -            |
| ۲      | -                  | 40       | _     | H | - | ł | -       | ł   |          | ⊢         | +        | _        | H        |   | -            | 4 | _        | $\vdash$ | l  | $\vdash$        | 89       | -            | $\vdash$ | <del> </del>  | ┞-           | ـ                  | L            |
| H      | -                  | 41       | _     | H | _ | ł | _       | ł   | _        | H         | +        |          | L        |   | ┝            | 4 |          | <u> </u> |    | <b> </b> -      | 90       | $\vdash$     | ļ_       | <u> </u>      | ┡            | L                  | L            |
| ۲      | -+                 | 42       | _     | ┞ |   | ł | _       | ł   | _        | ┝         | 4        |          | Ļ        | _ | ┞            | 4 | _        | <u> </u> |    |                 | 91       | $\vdash$     | _        | L             | $\vdash$     | $\vdash$           | L            |
| ۲      | _                  | 43       |       | ┞ |   | ł | _       | ┞   |          | $\vdash$  | +        |          | H        |   | $\vdash$     | + | -        | <u> </u> |    | $\vdash$        | 92       |              | <u> </u> | _             | <del> </del> | 1                  | L            |
| Ļ      | -+                 | 44       | _     | H | _ | t | -       | ┝   | $\dashv$ | ┝         | +        |          | ┝        | 4 | ⊢            | + | -        | -        |    | Н               | 93       | $\vdash$     | $\vdash$ | ⊢             | <del> </del> | 1                  | ⊢            |
| Ė      |                    | 45       | -     | H | _ | t | -       | H   | $\dashv$ | H         | +        | _        | $\vdash$ | 4 | ┝            | + | -        | -        |    | Н               | 94<br>95 | ┝            | _        | ⊢             | <u> </u>     | Ļ.                 | <del> </del> |
| ۲      | _                  | 46       |       | H |   | t | ٦       | t   | ┪        | H         | +        |          | ۲        | ┪ | $\vdash$     | + | $\dashv$ | _        | ,  | Н               | 96       | Η.           | ⊢        | -             | -            | $\vdash$           | -            |
| Γ      | _                  | 47       | ┪     | ۲ | _ | t | _       | t   | 7        | -         | †        |          | ۲        | ᅥ | -            | + | $\dashv$ | -        |    | $\vdash$        | 90<br>97 | $\vdash$     | -        | -             | -            | $\vdash$           | -            |
|        | _ -                | 48       | ٦     | ۲ |   | t | ٦       | t   | ٦        |           | †        | -        | ۲        | ٦ | H            | t | -        | Н        |    | $\vdash \dashv$ | 98       | $\vdash$     | -        | <del> -</del> | $\vdash$     | H                  | ⊢            |
|        | _                  | 49       |       |   | _ | T |         | T   | 1        | _         | t        | 7        | -        | ┪ | -            | t | ┪        | _        |    | $\vdash$        | 99       | Н            | -        | $\vdash$      | $\vdash$     | -                  | $\vdash$     |
| _      | Ŀ                  | 50       |       |   | _ |   |         |     |          | _         | İ        |          |          |   |              | t |          | _        |    |                 | 100      | -            | _        | $\vdash$      | ┢            | $\vdash$           | <del> </del> |

| Cla      | ılm           | Date |          |          |               |  |              |              |              |              |          |  |  |  |  |
|----------|---------------|------|----------|----------|---------------|--|--------------|--------------|--------------|--------------|----------|--|--|--|--|
| Final    | Original      |      |          |          |               |  |              | Ī            |              |              |          |  |  |  |  |
| F        | 101           | -    | H        | †-       | ╁             | ╅  | +-           | +            | ╁            | ╁            | +        |  |  |  |  |
|          | 102           | Н    | t        | ╁        | ╁             | +  | +-           | ╁            | ╫            | ╁            | 1        |  |  |  |  |
|          | 103           | Н    | t        | ✝        | ┿             | t  | +-           | 十            | ╅╌           | ┢            |          |  |  |  |  |
|          | 104           | ┢    | ┢        | t        | ╈             | ╁  | +            | ╁            | +-           | ┿            |          |  |  |  |  |
|          | 105           |      | Г        | T        | Τ             | T  | T            | ٦.           | ┿            | †-           |          |  |  |  |  |
|          | 106           |      |          | Ι        | I             |  |              |              |              | T            |          |  |  |  |  |
|          | 107           |      | L        | L        | $\perp$       |  |              | I            | Γ            | L            |          |  |  |  |  |
|          | 108           |      | L        | L        | 1_            | L  | L            |              | L            | ľ            |          |  |  |  |  |
|          | 109           | L    | L        | 1        | ļ             | ┸  | ┸            | ┸            | L            | L            | -        |  |  |  |  |
| Щ        | 110           | _    | L        | ₽        | ↓_            | 4  | ╄            | ╄-           | ┺            | L            |          |  |  |  |  |
|          | 111<br>112    | _    | ⊢        | Ŀ        | +-            | ╁  | ╄            | ╄-           | ↓_           | 1_           |          |  |  |  |  |
| Щ        | 113           | -    | ⊢        | ┡        | +-            | +-   | ╀            | ╄            | ╀-           | Ŀ            | <u> </u> |  |  |  |  |
|          |               | -    | ⊢        | ╄        | ╂             | ╂-   | ╀            | +            | ╁.,          | ╀            |          |  |  |  |  |
| -        | 114<br>115    | -    | ⊢        | ╀        | ╀╌            | ╁  | ╀            | +-           | ╀            | ├-           | -        |  |  |  |  |
|          | 116           | _    | -        | ╀        | ╁             | ╀  | ╄            | ╁            | ╀            | <del> </del> | H        |  |  |  |  |
|          | 117           |      | ⊢        | ╁        | ╁╌            | +-   | ╀            | ╀╌           | ╂            | ١.           | -        |  |  |  |  |
| $\dashv$ | 118           | _    | ⊢        | ┝        | ╁             | ╁  | ┿            | ╀            | ╆            |              | ┼-       |  |  |  |  |
| _        | 119           | -    | ├-       | ┢        | ╁             | ╁  | +-           | ╁            | ╀            | -            | $\vdash$ |  |  |  |  |
|          | 120           | -    | ⊢        | H        | ╁┈            | ╁  | ╫            | ╫            | ╫            | ╁.           | ┝        |  |  |  |  |
| ⊣        | 121           | -    | ┝        | ╁        | ╁╌            | +  | ╁╌           | ╂            | ┿            | H            | ├-       |  |  |  |  |
| _        | 122           |      | $\vdash$ | ╁╌       | ╁             | ╁╌   | ╁╌           | ╁╌           | ╁┈           | $\vdash$     | H        |  |  |  |  |
|          | 123           | _    | -        | ╁        | ╁             | ╁  | ╁            | ╁            | ╆            | ╁╴           |          |  |  |  |  |
|          | 124           |      | -        | H        |               | +  | +            | ╁╌           | ╁            | ┢            | -        |  |  |  |  |
|          | 125           | _    | H        | ┢        | ┢             | ✝  | †-           | 1            | ╁╌           | ┢            | ╁        |  |  |  |  |
|          | 126           | _    |          | T        | 1             | 1-   | 1-           | †            | $\vdash$     | 1-           | Н        |  |  |  |  |
|          | 127           |      |          | T        | Τ             | 1  | 1            | 1            | T            | 1            | ✝        |  |  |  |  |
|          | 128           |      |          |          | T             |  |              | T            | Γ            | 1            |          |  |  |  |  |
| _        | 129           | _    |          |          |               |  |              |              | T            | Ī            | •        |  |  |  |  |
|          | 130           |      |          |          |               |  |              | L            | Ι            | L            |          |  |  |  |  |
| _        | 131           |      |          |          |               |  | $\Gamma$     | $\Box$       | Ī            |              |          |  |  |  |  |
|          | 132           |      | L        | L        | L             | L  |              | L            |              |              |          |  |  |  |  |
|          | 133           |      | L        | L        | L             | ┺  | <u> </u>     | L            | L            | L            |          |  |  |  |  |
|          | 134           | _    | L        | L        | _             | _  | L            | L            | <u> </u>     | L            |          |  |  |  |  |
|          | 35<br>36      | _    |          | Ļ        | <u> </u>      | ┞-   | <u> </u>     | ļ.,          | ╙            | L            | L.,      |  |  |  |  |
|          | 37            | _    | _        | -        | ├_            | Ļ  | ╄            | ļ            | <b>!</b>     | _            |          |  |  |  |  |
|          |               | -    | _        | -        | ⊢             | <b>├</b>   | ├            | <del> </del> | <b>├</b>     | <b>L</b>     | Ш        |  |  |  |  |
| -        | 38<br>39      | -    | _        | ⊢        | ├             | ╀╌   | ┝            | ├-           | ╁            | ⊢            | <u> </u> |  |  |  |  |
|          |               | -    | _        | ┝        | ├             | ├  | ╀            | ⊬            | ├—           | Н            | $\vdash$ |  |  |  |  |
|          | 40            |      |          | <u> </u> | <del> -</del> | -  | -            | ├-           | <del> </del> | $\vdash$     | Н        |  |  |  |  |
| -[       | 42            | _    | _        | <u> </u> | $\vdash$      | 1  | <b>⊢</b>     | <u> </u>     | <b>Ļ</b>     | _            | Ш        |  |  |  |  |
| -[       | 43            |      | _        | _        | ⊢             | L  | <del> </del> | <u> -</u>    | <u> </u>     | Н            | Н        |  |  |  |  |
| _        | _             | 4    | _        | ⊢        | $\vdash$      |  | -            | ⊢            | -            | Н            | Щ        |  |  |  |  |
|          | 44<br>45      | -    |          | L.       | $\vdash$      | <b> </b>   | $\vdash$     | $\vdash$     |              | Ц            | Н        |  |  |  |  |
| _        | 46            | -    |          |          | H             | ⊢  | -            | ⊢            | ├            | Н            | Н        |  |  |  |  |
|          | 45            | -    | -        |          | -             | -  | $\vdash$     | -            | Н            | Н            | Щ        |  |  |  |  |
|          | 48            | -    | $\dashv$ | _        | H             | ⊢  | -            | _            | -            | Н            | Н        |  |  |  |  |
|          | 48<br>48      | -    | $\dashv$ | _        | Н             | $\vdash$   | $\vdash$     | $\vdash$     | Н            | Н            | $\dashv$ |  |  |  |  |
| ;        | <del>48</del> | ┥    | -        |          | μ.            | <del>                                     </del> | <del> </del> | $\vdash$     | Н            | Н            | Н        |  |  |  |  |

If more than 150 claims or 10 actions staple additional sheet here

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